

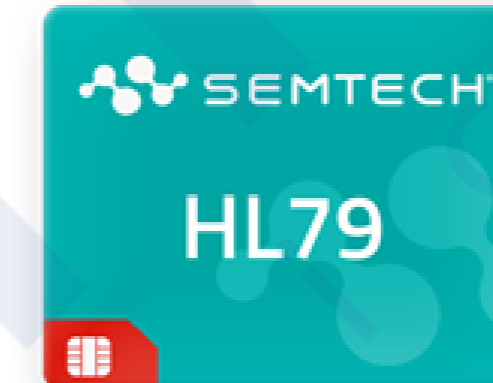
LPWA IoT Modules

Low Power

Deep Coverage

Small Footprint

Low-power wide-area (LPWA) cellular modules enabling field longevity for your battery-powered and low power deployments.



4G LPWA

5G LPWA*

LTE-M, NB1/ NB2

- Extremely low power consumption; enables 20 years of battery lifetime
- Extended Cat-M1 & NB2 network coverage with extra short-range radio
- 15 x 18 x 2.4 LGA package (CF3) with built-in edge processing and eSIM



smart
metering



gas/water
meters



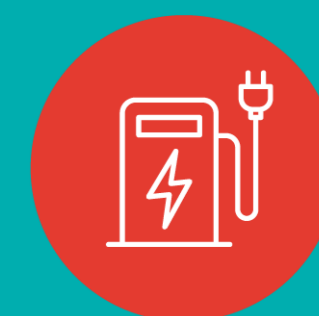
street
lighting



patient
monitoring



asset
tracking



EV
charging

HL7900 – Next Gen LPWA (5G)



Release 15 – 17*

Device longevity into 2040s

- 5G Device with R15
- Release 16 support for 5GCN
- Release 17 support for LPWA over satellite

*Rel 14 at launch



Low Power

Best in Class battery life

- Target PSM standby current of 1uA
- eDRX current 80% improved compared to HL7800
- 4x the battery life compared to HL7800



Short Range Radio

Expanded Use Cases

- 900 MHz & 2.4GHz Radio for short range wireless
- 802.14.5 support with FSK modulation
- Enables Mesh and proprietary protocols as well as CeMe



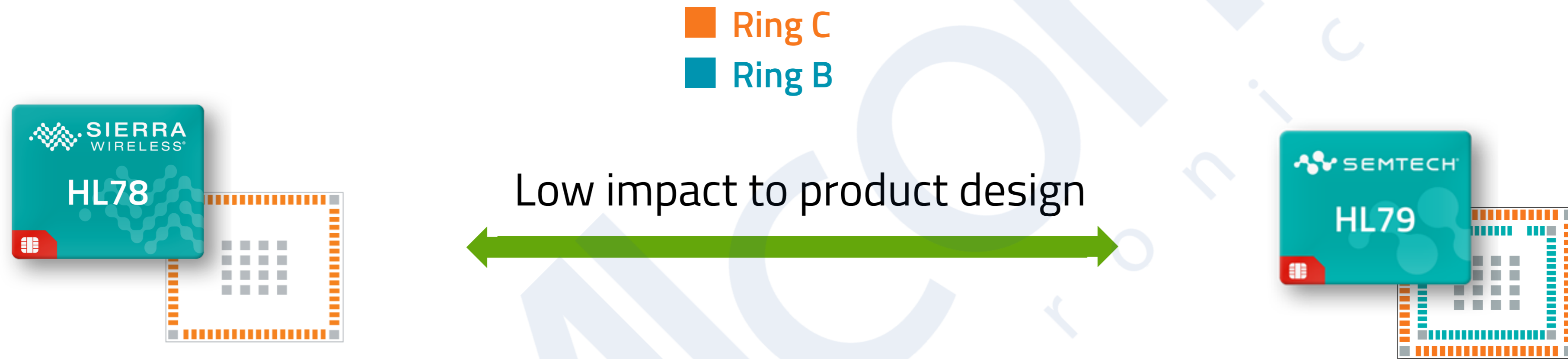
Edge Processing

Eliminates host uP

- Enables a cost and power optimized system
- Cortex M4 w/ FreeRTOS
- 1.3MB NVM
- 768KB RAM
- External PSRAM & External NOR Flash

Launching in 2024

HL78-HL79 Compatibility



Ring C (REQUIRED RING)

Ensures fundamental electrical and functional compatibilities

Ring B (OPTIONAL RING)

Supports additional features

- JTAG
- External Flash and PSRAM
- MIPI